**OPTION #1:**

There are 2 rules for T-sums:

* All numbers from 1-9 must appear exactly once in the boxes.
* The sum of the numbers vertically and horizontally must be equal.

This example is a T-sum because:

2 + 1 + 9 + 8 + 7 = 27

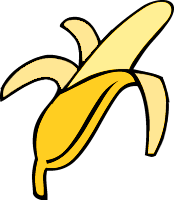
6 + 4 + 9 + 3 + 5 = 27

Your tasks:

* Determine what T-sums are possible.
* Determine what T-sums are impossible.
* Figure out WHY certain T-sums are possible and impossible.



**OPTION #2:**

[](http://bestclipartblog.com/25-banana-clip-art.html)

Cammie Camel owns a beautiful banana farm in the middle of the desert. (Hey, it’s the desert…crazier things have happened!)

Cammie has 3,000 bananas that she wants to sell at the marketplace. That marketplace is 1,000 miles away.

There are two issues, though:

* Cammie can carry up to 1,000 bananas at a time.
* Because she’s always hungry, she eats 1 banana each and every mile she walks. (So she MUST always have a banana with her.)

How many bananas can Cammie bring to the market?

**OPTION #3:**

On the right, you’ll see 5 boxes, from box 0 to box 4.

The goal is to put a number from 0 to 4 inside each box so that these conditions hold:

* The number in box 0 is the number of 0s you use total in the other boxes.
* The number in box 1 is the number of 1s you use total in the other boxes.
* The number in box 2 is the number of 2s you use total in the other boxes. …and so on, and so on…

You can use the same number more than once.

Your job: Find as many solutions as possible and convince the reader of your write-up that you have found all of them.

Here’s an INCORRECT way:

0 1 2 3 4

2

2

1

3

2

4

3

0

1

2